

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance
1001 I Street, 9th Floor
PO Box 4025
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.
 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.

The shaded cells on these sheets are protected. If you have problems using these sheets, please contact your Office of Local Assistance representative.

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name	County		
City of Madera	Madera		
Authorized Signature	Title		
Type/Print Name of Person Signing	Date	Phone () Include Area Code	
Person Completing This Form (please print or type)	Title		
Carolyn Sullivan	Integrated Waste Management Specialist		
Affiliation:	CIWMB Office of Local Assistance		
Mailing Address	City	State	ZIP Code
205 W. 4th Street	Madera	CA	93637-3527
E-mail address			

Section II: Information for New Generation-Based Study for Existing or New Base Year

Attach additional sheets if necessary— reference each response to the appropriate cell number (e.g., 4).

Note: New base years must be representative of a jurisdiction's disposal and diversion.

1. Current Board-approved existing base-year: 1990 (35,727 tons generation)	2. Proposed new generation-based study year: 1999 (70,916 tons generation)
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3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:

In the City of Madera, 1999 was a year without unusual waste generating events.

4. Enter your diversion rates below.

Diversion rate calculated using existing base year	a. 21 %	Diversion rate calculated using new generation-based study	b. 50 %
For existing base year pounds/person/day based on generation	6.7	For new generation based study pounds/person/day based on generation	10.6
Residential generation 38 % Non-Residential generation 62 %		Residential generation 38% % Non-Residential generation 62% %	
Population existing generation-based study 29,000		Population new generation-based study 36,600	

5. If there is an increase between 4a and 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples, e.g. change in jurisdiction's demographics.

The City has implemented many new programs in the time since the original base year study was conducted including curbside recycling collection for single and multi-family dwellings, curbside greenwaste collection, salvage at the landfill, and increased public education efforts. Using the City's 1990 base year and the CIWMB adjustment factors, the diversion rate decreased from 29% in 1995 to just 21% in 1998. The new base year study discovered a significant amount of diversion being carried out by private businesses. These efforts by local businesses were not fully recognized in the 1990 base year.

6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)

The City has implemented many new programs in the time since the original base year study was conducted. Some programs which divert significant tonnage are: Curbside collection program for single and multi-family dwellings implemented in 1995. Concrete diversion program implemented in 1995 and promoted by the City. Major retail chains began backhauling cardboard in 1995. In 1995, the city implemented a yardwaste drop-off program. In 1999, the city implemented a curbside greenwaste collection program which proved very popular. Radio and newspaper ads have brought a noticeable increase in can and bottle recycling. Salvage program for roll-offs implemented in 1995.

7. Disposal Tonnage: (enter values)		Total
15283	20259	35542
Residential	Non-Residential	

Please select the **ONE** choice below that best explains your disposal data and complete the required tables.

a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at <http://www.ciwmrb.ca.gov/lgcentral/forms/rytnmdrq.doc>)

c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at <http://www.ciwmrb.ca.gov/lgcentral/forms/tytnmdrq.doc>)

Please select the **ONE** choice below that best explains your disposal data and complete the required tables.

a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at <http://www.ciwmb.ca.gov/central/forms/systmndr/doc>)

- Please select the **ONE** choice below that best explains your disposal data and complete the required tables.

a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at <http://www.ciwmb.ca.gov/glgcentral/forms/rytnmdrq.doc>)

c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at <http://www.ciwmb.ca.gov/glgcentral/forms/rytnmdrq.doc>)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: The Board expects the jurisdictions to be able to provide all back-up documentation, if requested) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (from will perform all addition calculations). If any diversion is from restricted wastes, [agricultural wastes, inert solids (e.g., concrete, asphalt, dirt, etc.), white goods, and scrap metal] please identify those programs/waste types and fill out section 10. Please mark as Attachment 8. All copies of survey forms.

*Please provide detailed Non-Residential waste information in Section 9.

Note: The Board has indicated that it will be scrutinizing total source reduction amounts greater than 5% of total generation. Please be prepared to provide additional details substantiating your claim.		
Diversion Activity	Actual tons Relative Percent to Specific material types(s) [List operation w/multiple materials]	Specific conversion factor used (if any) and Source Type of record and

Diversion Activity		Actual tons		Relative Percent to Total Generation		Specific material type(s) (list operation w/multiple materials in one box)		Note: The Board has indicated that it will be scrutinizing total source reduction amounts greater than 5% of total generation. Please be prepared to provide additional details substantiating your claim.	
Please use the Board's program types. The program type glossary is online at: http://www.ciwmbc.ca.gov/cifcentral/parts/codes/reduce.htm		(A)		(AT) total Generation)				Type of record and location of record	
Residential Activities:									
Source Reduction									
Backyard composting				0.0%					
Grasscycling									
Other Residential source reduction (list each program separately)									
Commercial Activities:									
Source Reduction									
Curbside Recycling									
Buyback centers		1386		2.0%		Aluminum, glass and plastic		Actual	
Drop-off centers									

Diversion Activity	Actual tons (A)	Relative Percent to Total Generation (A/Total Generation)	Specific conversion factor used (if any) and Source (List operation with multiple materials in one box)	Type of record and location of record
Please use the Board's program types. The program type glossary is online at: http://www.ciwmth.ca.gov/centralparis/codes/reduce.htm				
Other Residential recycling (list each program separately)				
Enter program name				
Enter program name				
Enter program name				
Enter program name				
Subtotal Residential Recycling	1386	2.0%		
Composting				
Green waste drop-off				
Curbside green waste				
Christmas Tree program				
Other Residential composting (list each program separately)				
Enter program name				
Enter program name				
Enter program name				
Enter program name				
Enter program name				
Subtotal Residential Composting	0	0.0%		
Subtotal Residential Diversion	1386	2.0%		
Non-Residential Activities:				
Source Reduction	9387	13.2%	See Section 9	See Section 9
Non-Residential Waste Audits*			See Section 9	See Section 9
Other non-Residential source reduction (list each program separately)				
Enter Program name				Provided with study
Enter program name				
Enter program name				
Enter program name				
Subtotal Non-Residential Source Reduction	9387	13.2%		

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific material type(s) (list operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Please use the Board's program types. The program type glossary is online at: http://www.ciwmrb.ca.gov/lqcentral/parts/coes/reduce.htm	(A)	(A)Total Generation			
Recycling	6729	9.5%			See Section 9
Non-Residential Waste Audits*					See Section 9
Other non-Residential recycling (list each program separately)					See Section 9
Tallow Material handler	132	0.2%	grease/tallow cardboard	328 lbs./144 gallons US EPA	Report from materials handler/City
Recycler	510	0.7%	concrete, asphalt	Actual/vendor survey	Hauler records/City
Concrete/Asphalt recycling	8633	12.2%		Actual	Letter from company and on-site verification/City
MRF	4352	6.1%	cardboard/paper, glass, metal, plastic	Actual tonnage and City's tonnage is based upon estimated percentage for the city	MRF report/City
Enter program name					
Subtotal Non-Residential Recycling	20356	28.7%			
Composting					See Section 9
Non-Residential Waste Audits*	1329	1.9%			See Section 9
Other non-Residential composting (list each program separately)					See Section 9
Material handler - auction	180	0.2%	manure	1628 lbs./cu. Yard/Tellus study	Survey/on file with city
Enter program name					
Enter program name					
Enter program name					
Subtotal Non-Residential Composting	1489	2.1%			
Subtotal Non-Residential Diversions	31213	44.0%			
Residential/Non- Residential Diversions					
ADC	2776	3.9%	greenwaste and inert	Actual	operator records/DRS
Sludge					
Scrap metal					
Construction and demolition					
Landfill salvage					
Subtotal Residential/Non-Residential diversion	2776	3.9%			
Total Res/Non-Res Source Reduction Tons	9367	13.2%			
Total Diversions Tons	35374	49.9%			
Total Disposal Tons from Sec.7	35542	50.1%			
Total Generation Tons (Div+Dis)	70916				
Diversion Rate	50%				

9. Specific Non-Residential Sector Waste Audits-Top 10 Non-Residential Generators

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.

(Form will perform all addition calculations).

Please provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type, and applicable conversion factors/sources. Include copies of survey form(s) used.

Type of Non-residential Generator	Audit Reference Number	Specific/Major Diversion Activities (e.g. paper recycling, grassrecycling). (List activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other _____
PUBLIC WORKS DEPARTMENT	GTGOV1	STREET SWEEPING REUSE, TREE TRIMMING COMPOSTING, SCRAP METAL RECYCLING, ASPHALT REUSE	4205			151	4356	6.1% 0
MANUFACTURER	SV3-7-19	PALLET, PLASTIC, STRETCH WRAP FILM, AND WOOD RECYCLING		3756			3756	5.3% 0
MUNICIPAL GOLF COURSE	MNM06	GRASSCYCLING	1305				1305	1.8% 0
SCHOOL DISTRICT	MNMSD	GRASSCYCLING	1105				1105	1.6% 0
CITY PARKS/COMMUNITY SERVICES	GTGCV4	GRASSCYCLING, TREE TRIMMINGS COMPOSTING	870		14	884	1.2%	0
GROCERY STORE	MN2562	OCC RECYCLING, WOODEN PALLET REUSE, PLASTIC PALLET REUSE, WAXED OCC COMPOSTING, PRODUCT RETURN REUSE, TALLOW/GREASE RECYCLING, GREENWASTE (PRODUCE WASTE) COMPOSTING						0
MANUFACTURER	SV6-7-19	OCC REUSE, PALLET REUSE, SHIPPING CONTAINER REUSE	69	415	211	695.02	1.0%	
GROCERY STORE	MN7357	OCC RECYCLING, WOODEN PALLET REUSE, PLASTIC PALLET REUSE, PRODUCT RETURN REUSE, TALLOW/GREASE RECYCLING, GREENWASTE (FOOD WASTE) COMPOSTING, PLASTIC BALE RECYCLING	610			610.3	0.9% 0	
			81	333	182	595.83	0.8%	

RETAIL STORE	HMPHONE24	PALLET REUSE, PLASTIC FILM RECYCLING, PRODUCT RETURN REUSE, PRODUCT DONATION REUSE, OCC REUSE, AND OCC RECYCLED	180	364		543.66	0.8%	O
GROCERY STORE	MN6225	OCC RECYCLING, OCC REUSE, GREENWASTE (FOOD WASTE) COMPOSTING, TALLOW/GREASE RECYCLING, AND PRODUCT RETURN REUSE						O
			14	393		407.88	0.6%	
		Totals	8439.32	5261.51	557.86	14258.69	20.1%	

Summarize the non-residential diversion activities for the top 10 generators quantification methodology, and applicable conversion factors and sources. (e.g. Cardboard recycling, quantified by monthly tonnage receipts provided by the contact person at the business)

Quantification

Asphalt reuse: Public Works department provided cubic yards of material reused. City conducted weight test on one truckload of asphalt using a certified scale. Weight was determined to be 110 lbs. per cubic yard.

OCC Bale Recycling: tonnage was quantified by contacting merchants who bale and sell their own OCC. Merchants provided number of bales sold which was multiplied by the bale weight of 700 lbs. per bale. (Source of bale weight - merchant) Business #9: Per store manager and site verification two 1,000 lbs per bales per day are generated year round @363 days.

Plastic Bale Recycling: tonnage was quantified by contacting merchants who bale and sell their own plastic. Merchants provided number of bales sold which was multiplied by the bale weight of 180 lbs. per bale. (Source of bale weight - merchant)

Tallow/Grease Recycling: tonnage was quantified by contacting merchants who send their tallow/grease for recycling. The number of 44 gallon drums sent was collected and multiplied by the conversion factor of 328 lbs. per 44 gallon drum. (Source: US EPA)

Tree Trimming Composting: (#2) applied the actual cubic yard volume of park tree trimmings which was received from the City Public Works Department and multiplied by the Tellus conversion factor of 1080 lbs. per cubic yard. (#3) used a conversion factor of 47 lbs per cubic yard. (Note: staff were unable to verify the tree trimming composting tonnage to verify the appropriateness of the two conversion factors.)

Waxed OCC Compost: tonnage was quantified by obtaining the weight for a pallet of waxed OCC sent to composting (700 lbs. pallet) and multiplying by the number of pallets sent to composting (363 pallets) (Source of OCC filled pallet - merchant).

Greenwaste (Food Waste) Composting: tonnage was quantified by contacting generator to determine the actual number of cubic yards of greenwaste were sent for composting in a year. The actual number of cubic yards was multiplied by the conversion factor of 1443 lbs. per cubic yard. (Source: Tellus)

Pallet Reuse (plastic & wood): Applied the conversion factor of 40 lbs (for a standard pallet) to each pallet that is reused. Each pallet is only counted 1 time regardless of the number of times it is used. Staff verified with the business the total number of pallets in the business system and owned by the business to ensure pallets were only counted once.

Cardboard Box Reuse: Multiplied the conversion factor of 1.1 lbs., 2.2 lbs or 4 lbs, depending on the size of container being reused to the number of containers being reused during a period of time.

Product Return: Determined the actual number of returned goods boxes sent out per month and multiplied by 12 months. Confirmed average weight of box to be 25 lbs per box for business #6, 8 and 10 and 20 lbs per box for business #9 and multiplied by the number of boxes returned each month.

Street Sweepings: The City Public Works department weighed the street sweepings. The tonnage was verified with actual weight tickets.

Pallet Recycling: Business estimated that 5% of total pallets that break and are sent to a recycler. The number of pallets that break per year was multiplied by 40 lbs per pallet.

Paper Scrap Recycling: This tonnage was verified with actual weight tickets.

Plastic Recycling: This tonnage was verified with actual weight tickets.

Stretch Wrap Film: This tonnage was verified with actual weight tickets.

Wood Recycling (Pallets): This tonnage was verified with actual weight tickets.

Scrap Metal: This tonnage was verified with actual weight tickets.

Grasscycling: Interviewed manager to obtain number of acres. Number of acres was then multiplied by the conversion factor of 8.7 tons per acre per year (Source: LA Parks and Recreation). Staff confirmed which acreage is not grasscycled and if mowing is year round.

Shipping Container Reuse: Containers are owned by the business and determined by the total number of containers reused in the system to ensure they were counted one for one. Conversion factor of 65 lbs per box was multiplied by the total number of containers.

Plastic Film Recycling: total number of bags collected multiplied by 4 lbs per bag was provided by the business.

Donation: business provided number of boxes of donated items sent out per month, multiplied by 12 months and multiplied by the average weight of 20 lbs per box.

10. For each restricted waste type [i.e., agricultural waste, inert solids, (e.g. concreter, asphalt, dirt, etc.) scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table.

(Note: program name refers to one specific diversion program for that waste type; (e.g., diversion conducted by City Public Waste Dept).

Restricted Waste Type	Specific Program name	Year started	Tonnage
Inert Solids	Concrete recycling	1992	8633
Scrap Metal	City Public Works Scrap metal diversion	1995	17
Scrap Metal	MRF	1995	up to 4,071
Inert Solids	ADC	1995	737
Inert Solids	Asphalt Reuse	1992	2888
Pull Down for Waste Types			

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.

Instead please provide date of Board approval of previously submitted information.

_____ (Date)

If documentation is not available, go to 10d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs [PRC Sec. 41781.2 (c) (2)]). Please include documentation.
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		
Pull Down for Waste Types		

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. (Note : Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				
Pull Down for Waste Types				

Board Meeting

November 13-14, 2001

Revised Table 1: City of Madera Waste Generation Study

Agenda Item 13
Attachment 2c

Ref. No.	City	Type of business	Material Type	Qty.	Unit	Freq.	Tons/Yr	Conversion factor	Source/study	Diversion Activity
HMphone01	Madera	Commercial landscaper	leaves and grass	905,520	lbs	year	458.76	280 lbs/cu yd	UCLA-st	Composting
HMphone02	Madera	Commercial landscaper	leaves and grass	7 tons	year		7.00	280 lbs/cu yd	UCLA-st	Composting
HMphone03	Madera	Commercial wood miller	OCC	0.03	tons	year	0.0311	1 lb each box	USEPA	Reuse
HMphone04	Madera	Commercial shredder	paper	165	lbs	bmonth	0.591375	lb/cu yd	Telus	Recycled
HMphone05	Madera	Commercial repair	furniture	5 tons	year		3.30	50 lbs each-average	Merchant	Reused
HMphone06	Madera	Commercial printer	OCC reuse	0.03	tons	year	0.0311	1 lb each box	USEPA	Reused
HMphone07	Madera	Commercial printer	OCC reuse	1 tons	year		1.20	1 lb each box	USEPA	Reused
HMphone08	Madera	Commercial offices	paper reuse	23 tons	year		23.00	53 lbs/cu yd	Telus	Recycled
HMphone09	Madera	Commercial warehouse	pallets	15,600	tons	year	15.60	40 lbs/pallet	USEPA	Reused
HMphone10	Madera	Commercial	drum reuse	3.75	tons	year	3.75	25 lbs/55 gal drum	UCLA-st	Reused
HMphone11	Madera	Commercial landscaper	leaves and grass	25.2	tons	year	25.20	280 lbs/cu yd	UCLA-st	Composting
HMphone12	Madera	Commercial storage	garage sale items	3.85	tons	year	3.85	35 tons/ave	UCLA Ext	Reused
HMphone13	Madera	Commercial printer	OCC reuse	0.03	tons	year	0.0311	1 lb each box	USEPA	Reused
HMphone14	Madera	Commercial small house	shredded paper	0.35	tons	year	0.38	.0118 lbs/sheet	USEPA	Reused
			OCC reuse	0.06	tons	year	0.0611	1 lb each box	USEPA	Reused
			styro peanuts	0.16	tons	year	0.16	8.27 lbs/cu yd	Telus	Recycled
HMphone15	Madera	Commercial landscaper	leaves and grass - util	9.7	tons	year	9.70	25 lbs/33 gal	USEPA	Composting
HMphone16	Madera	Commercial landscaper	grass/bush trimmings	25	tons	year	25.00	280 lbs/cu yd	UCLA-st	Composting
HMphone17	Madera	Commercial florist/gifts	OCC reuse	0.11	tons	year	0.1111	1 lb each box	USEPA	Reused
			bucket reuse	0.2	tons	year	0.20	1.9 lbs/bucket	USEPA	Reused
HMphone18	Madera	Commercial tire dealer	tire reuse	6.50	tons	year	6.50	20 lbs/tire	USEPA	Reused
HMphone19	Madera	Commercial tire dealer	tire reuse	42	tons	year	42.00	30 lbs/tire	Merchant	Reused
HMphone20	Madera	Commercial tire dealer	tire reuse	0.18	tons	year	0.18	1 lb/10 tires	Merchant	Reused
HMphone21	Madera	Commercial tire dealer	tire reuse	5.20	tons	year	5.20	20 lbs/tire	USEPA	Reused
HMphone22	Madera	Commercial florist	OCC reuse	0.07	tons	year	0.0711	1 lb each box	USEPA	Reused
HMphone23	Madera	Commercial retail	hangers	31	tons	year	30.60	200 lbs/box	Merchant	Reused
			wall reuse	13	tons	year	13.00	40 lbs/pallet	USEPA	Reused
			plastic film	5.3	tons	year	5.50	4.8 lbs/32 gal	UCLA-sh	Recycled
			damaged goods	2.12	tons	year	2.12	30 lbs/pallet	Merchant	Recycled
			OCC tons for reuse	9	tons	year	8.30	2.2 and 4 lbs each	USEPA	Recycled
HMphone24	Madera	Commercial retail	pallet reuse	259	tons	year	259.00	40 lbs/pallet	USEPA	Reused
			plastic film	0.83	tons	year	0.8314	1 lb/bag	Merchant	Recycled
			return to warehouse	68.6	tons	year	68.60	20 lbs/box	Merchant	Recycled
			donation	1.2	tons	year	1.20	20 lbs/box	Merchant	Reused
			OCC reused	38.03	tons	year	38.0311	1 lb each box	USEPA	Reused
			OCC recycled	348	tons	year	348.00	400 lbs/cu yd	USEPA	Recycled
MN7647	Madera	Commercial newspaper	OCC reuse	211.2	lbs	year	0.11	2.2 lbs each box	USEPA	Reused
			paper	274	lbs	year	0.14	3 lbs/ream	USEPA	Recycled
			pallet reuse	480	lbs	year	0.2814	40 lbs/pallet	USEPA	Reused
			tower cartridges	24	lbs	year	0.01	2.5 lbs each	USEPA	Recycled
MN401	Madera	Commercial trophy shop	paper	60	lbs	year	0.0313	1 lb/ream	USEPA	Recycled
			OCC reuse	328	lbs	year	0.2612	2 lbs each box	USEPA	Reused
			pallet reuse	480	lbs	year	0.24	40 lbs/pallet	USEPA	Reused
MN0289	Madera	Commercial newspaper	paper	12,120	lbs	year	6.06	Actual	Tribune	Recycled
			OCC reuse	264.0	lbs	year	0.1312	2 lbs each box	USEPA	Reused
			pallet reuse	14,400	lbs	year	7.20	40 lbs/pallet	USEPA	Reused
			tower cartridges	120	lbs	year	0.06	2.5 lbs each	USBPA	Recycled
MN0859	Madera	Commercial printf.	sewslud to compost	1,069	lbs	year	0.33	375 lbs/cu yd	Telus	Composting
			pallet reuse	2,400	lbs	year	1.20	40 lbs/pallet	(USEPA)	Reused
			OCC reuse	2,640	lbs	year	1.32	2.2 lbs each box	USEPA	Reused
			paper	30	lbs	year	0.02	5 lbs/ream	USEPA	Reused
MN002	Madera	Commercial retail	fabric	6,736	lbs	year	3.37	64.4 lbs/cu yd	Telus	Recycled
			OCC reuse	160	lbs	year	0.06	2.3 lbs each box	USEPA	Recycled
			paper	30	lbs	year	0.02	5 lbs/ream	USEPA	Recycled
			tower cartridges	11	lbs	year	0.01	2.5 lbs each	USEPA	Recycled
MN003	Madera	Nonprofit library	books	200	lbs	year	0.45	25-50 lbs/100	Library	Recycled
MN004	Madera	Commercial school	paper	13,086	lbs	year	6.54	5 lbs/ream	USEPA	Recycled
			paper reuse	1,200	lbs	year	0.60	5 lbs/ream	USEPA	Reused
			OCC reuse	528	lbs	year	0.26	2.2 lbs each box	USEPA	Recycled
			tower cartridges	300	lbs	year	0.15	3 lbs each	USEPA	Recycled
MN005	Madera	Commercial laundry	grass/bush trimmings	227	tons	year	226.60	8.7 tons/acre/yr	LA Parks and Rec	Composting
MN3127	Madera	Commercial retail	pallet reuse	35,000	lbs	year	18.00	40 lbs/pallet	USEPA	Reused
MN1080	Madera	Commercial retail	OCC reuse	264	lbs	year	0.1312	2 lbs each box	USEPA	Reused
			pallet reuse	9,600	lbs	year	4.80	40 lbs/pallet	USEPA	Reused
			plastic totes	13,520	lbs	year	6.74	5 lbs/20 totes	Merchant	Reused
			OCC recycling	26,172.72	lbs	year	13.00	2.2 lbs each box	USEPA	Recycled
MN007	Madera	Commercial golf course	grass/bush trimmings	78	tons	year	78.00	8.7 tons/acre/yr	LA Parks/Rec	Composting
MN0414	Madera	Commercial shipping	pallet reuse	480.0	tons	year	480.00	40 lbs/pallet	USEPA	Reused
MN3640	Madera	Commercial maint.	plastic barrels	3,448	lbs	year	1.72	15 lbs/55 gal bar	UCLA	Reused
			paper drums	1,800,000	lbs	year	0.90	25 lbs/55 gal drum	UCLA-st	Reused
			OCC reuse	132	lbs	year	0.0712	3 lbs each box	USEPA	Reused
			rollies reuse	33,600	lbs	year	15.80	40 lbs/pallet	USEPA	Reused
MN1986	Madera	Commercial dist.	pallet reuse	7,200	lbs	year	1.60	40 lbs/pallet	USEPA	Reused
MN7918	Madera	Commercial dist.	OCC reuse	26.41	lbs	year	0.01	2.2 lbs each box	USEPA	Reused
MN7995	Madera	Commercial dist.	pallet reuse	321	tons	year	52.00	40 lbs/pallet	USEPA	Reused
MN4657	Madera	Commercial retail	donations	600	lbs	year	0.30	50 lbs/month	Merchant	Reused
MN7944	Madera	Commercial retail	hangers	1,500	lbs	year	0.75	125 lbs/100	UCLA-st	Reused
			OCC recycling	145,000	lbs	year	72.80	700 lbs/pels	Merchant	Recycled
MN7627	Madera	Commercial retail	hangers	4,500	lbs	year	2.25	125 lbs/100	UCLA-st	Reused
			pallet reuse	12,480	lbs	year	6.24	40 lbs/pallet	USEPA	Reused
MN3748	Madera	Commercial medical	OCC reuse	356	lbs	year	0.20	2.2 lbs each box	USEPA	Reused
			recycling	34,000	lbs	year	42.00	600 lbs/bale	Hospital	Recycled
			Paper	24,000	lbs	year	12.00	5 lbs/ream	USEPA	Recycled
			grass/bush trimmings	30,45	lbs	year	30.45	8.7 tons/acre/yr	LA Parks/Rec	Composting
			donation	200	lbs	year	0.10	Actual	Hospital	Recycled
MN4377	Madera	Commercial medical	paper	6	long	year	3.76	77 lbs/nation	USEPA	Recycled
MN5855	Madera	Commercial grocery	OCC recycling	509,600	lbs	year	254.80	400 lbs/cu yd	USEPA	Recycled
			pallet reuse	416,000	lbs	year	206.80	40 lbs/pallet	USEPA	Reused

362.21

363.00

76.00

PALLET RECYCLING

128.44

			plastic totes	10400 lbs	year	3.40 \$/lb/40 medium	Merchant	Reused
			product return	32,500 lbs	year	16.24 Actual	Merchant	Reused
MN6191	Madera	Commercial	tallow/grease	106,400 lbs	year	55.40 \$/155/lbs/cu yd	UCLA Ext.	Recycled
MN3905	Madera	Commercial	retail	4,151 lbs	year	0.21 \$/4 lbs each box	USEPA	Recycled
		Commercial	OCC reuse	218,400 lbs	year	109.20 700 lbs/bale	Merchant	Recycled
		Commercial	pallet reuse	41,400 lbs	year	20.80 40 lbs/pallet	USEPA	Reused
			OCC reuse	792 lbs	year	0.40 \$/2.2 lbs each box	USEPA	Reused
MNM08	Madera	Commercial	retail	109,200 lbs	year	54.60 700 lbs/bale	Merchant	Recycled
			pallet reuse	72,800 lbs	year	36.40 40 lbs/pallet	USEPA	Reused
			plastic totes	26,000 lbs	year	12.60 \$5/lb/100 small	Merchant	Recycled
			plastic reuse	104,313 lbs	year	0.053 lb/100 small	Merchant	Reused
			OCC reuse	528 lbs	year	0.26 \$/2.2 lbs each box	USEPA	Recycled
MN7357	Madera	Commercial	grocery	635,750 lbs	year	317.63 700 lbs/bale	Merchant	Recycled
			OCC recycling	81,120 lbs	year	40.50 180 lbs/pallet	USEPA	Reused
			wooden pallet reuse	41,600 lbs	year	20.80 40 lbs/pallet	USEPA	Reused
			plastic pallet reuse	9,362 lbs	year	4.68 180 lbs/bale	Merchant	Recycled
MN7562	Madera	Commercial	grocery	102,300 lbs	year	361.15 700 lbs/bale	Merchant	Recycled
			OCC recycling	83,200 lbs	year	41.00 40 lbs/pallet	USEPA	Reused
			wooden pallet reuse	83,200 lbs	year	20.80 40 lbs/pallet	USEPA	Reused
			plastic totes	6,500 lbs	year	3.25 \$5/lb/100 small	Merchant	Reused
			waxed OCC compost	234,100 lbs	year	127.05 700 lbs/pallet	Merchant	Composted
			product return	32,500 lbs	year	16.24 \$2.2 lbs/boxed	Merchant	Reused REUSE
			tallow/grease	24,600 lbs	year	12.60 \$10/lb/55 gal	USEPA	Recycled
			greenwaste	167,619 lbs	year	\$3.81 \$1443 lbs/cu yd	Telus	Composting
			OCC reuse	15,972 lbs	year	7.90 2.2 lbs each box	USEPA	Reused
MN2961	Madera	Commercial	grocery	762,300 lbs	year	381.15 700 lbs/bale	Merchant	Recycled
6225			OCC reuse	2,860 lbs	year	1.43 2.2 lbs each box	USEPA	Reused
			greenwaste	143,600 lbs	year	72.80 1443 lbs/cu yd	Telus	Composting
			tallow/grease	24,600 lbs	year	12.30 \$10/lb/55 gal	USEPA	Recycled
			product return	26,000 lbs	year	13.00 \$5/lb/boxfull	Merchant	Reused REUSE
			plastic totes	11,700 lbs	year	3.25 \$5/lb/100 small	Merchant	Reused
						5,120.34		

6.76 PALLET RECYCLING

Material Handlers

MN7540	Madera	Commercial	tallow/grease	447 lbs	year	0.33 \$10/lb/55 gal	USEPA	Recycled	
MNM09	Madera	Commercial	tallow/grease	243,840 lbs	year	131.40 \$10/lb/55 gal	USEPA	Recycled	
GTMH01	Madera	Commercial	recycler	310 tons	year	\$10.00 Actual	Vendor	Recycled	
GTMH02	Madera	Commercial	recycler	concrete	19,000 tons	year	19,000.00 Actual	Vendor	Recycled
GTMH03	Madera	Commercial	asbestos	160 tons	year	160.00 \$1624 lbs/cu yd	Telus	Composting	
						19,801.6			

22

131.72

Third Stream	Madera	Commercial	litter store	clothing/misc	56 tons	year	56.00 \$5 lbs/base	UCLA Ext.	Reused
MNG600	Madera	Commercial	litter store	clothing/misc	426 tons	year	225.00 \$5/lb/ton/yr	UCLA Ext.	Reused
MNG618	Madera	Commercial	litter store	clothing/misc	426 tons	year	425.70 \$125.7 tons/yr	UCLA Ext.	Reused
MNTM1	Madera	Commercial	litter store	clothing/misc	426 tons	year	425.70 \$125.7 tons/yr	UCLA Ext.	Reused
MNTM3	Madera	Commercial	litter store	clothing/misc	426 tons	year	425.70 \$125.7 tons/yr	UCLA Ext.	Reused
MNTM2	Madera	Commercial	litter store	clothing/misc	426 tons	year	425.70 \$125.7 tons/yr	UCLA Ext.	Reused
MNG619	Madera	Commercial	litter store	clothing/misc	199.20 tons	year	199.20 \$5 Actual	Merchant	Reused
			scrap foam	94.4 tons	year	94.40 Actual	Merchant	Recycled	
			cardboard and roll core	47.70 tons	year	47.70 Actual	Merchant	Recycled	
			scrap plastic	144 tons	year	144.00 Actual	Merchant	Recycled	
SV3-7-19	Madera	Commercial	site visit	chip pallets	1,353 tons	year	1,354.50 \$75 lbs/pallet	Merchant	Reused
			standard pallets	316 tons	year	316.00 \$40 lbs/pallet	Merchant	Reused	
			cardboard	194 tons	year	194.00 \$3 lbs/sheet	Merchant	Recycled	
			paper scrap	3,101 tons	year	3,101.00 \$10 Actual	Merchant	Recycled	
			plastic	1.30 tons	year	4.30 Actual	Merchant	Recycled	
			stretch wrap film	3,50 tons	year	3,30 \$0.00 \$10/lb/ton	Merchant	Recycled	
			wood	3.10 tons	year	3.10 Actual	Merchant	Recycled	
SV4-7-19	Madera	Commercial	site visit	pallets	21.6 tons	year	21.60 \$40 lbs/pallet	Merchant	Reused
			plastic film	0.41 tons	year	0.41 Actual	Merchant	Recycled	
			cardboard	15.6 tons	year	15.60 Actual	Merchant	Recycled	
			paper	120.64 tons	year	120.64 Actual	Merchant	Recycled	
			plastic bottles	1 tons	year	0.99 Actual	Merchant	Recycled	
			office furniture	0.057 tons	year	0.05 \$5 25/123.5/item	BUG Study	Reused	
SV5-7-19	Madera	Commercial	site visit	wood	212.6 tons	year	212.60 \$120.53 lbs/cu yd	Telus	Recycled
			cardboard	129.00 tons	year	129.00 \$5 lbs/sheet	Merchant	Recycled	
SV6-7-19	Madera	Commercial	site visit	cardboard boxes	13.40 tons	year	13.40 \$25.00 lbs/box/ton	Merchant	Reused
			pallets	140.60 tons	year	140.60 \$40 lbs/pallet	Merchant	Reused	
			shipping containers	456.50 tons	year	456.50 \$0.65/lb/cu box of box	Merchant	Source Reduction REUSED	
			plastic scrap	1,705.60 tons	year	1,705.60 Actual	Merchant	Reused	
SV7-7-19	Madera	Commercial	site visit	cardboard	29.6 tons	year	29.60 Actual	Merchant	Recycled
			tarlets	54 tons	year	54.00 \$40 lbs/pallet	Merchant	Reused	
			33 gallon drums	30 tons	year	30.00 Actual	Merchant	Reused	
SV8-7-19	Madera	Commercial	site visit	wood	133.00 tons	year	133.00 Actual	Merchant	Recycled
			pallets	77.00 tons	year	77.00 \$40 lbs/pallet	Merchant	Reused	
			wooden crates	81.00 tons	year	81.00 \$5 Recycle	Merchant	Reused	
			metal cases reused	44.00 tons	year	44.00 \$0.00/lb/case	Merchant	Reused	
			shop rags reused	8.00 tons	year	8.00 \$1.50/lb/recycle	Merchant	Reused	
SV9-7-19	Madera	Commercial	site visit	pallets	74 tons	year	74.00 \$40 lbs/pallet	USEPA	Reused
			wood	106 tons	year	106.00 Actual	Merchant	Recycled	
			office paper	0.13 tons	year	0.13 Actual	Merchant	Recycled	
SV10-7-19	Madera	Commercial	site visit	pallets	36.8 tons	year	36.80 \$40 lbs/pallet	USEPA	Reused
			small pallets	37.0 tons	year	37.00 \$5 lbs/pallet	Merchant	Reused	
			plastic buckets	2 tons	year	2.00 \$1.5 lbs/packet	USEPA-rev	Reused	

REUSED
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Board Meeting
November 13-14, 2001

Agenda Item 13
Attachment 2c

School District	Madera	School District	Government	Waste Recycling	Diversion	Generation	Year	1,000 lbs / tons/acre/yr	LA Parks/Rec	Comments
								1,000.00		

970.00

SOURCE REDUCTION

1196.00

SOURCE REDUCTION

2,888.00

00

City Government

KINNO	Madera	Municipal Golf Co	Government	waste/recycling	diverstion	generation	year	1,000 lbs / tons/acre/yr	LA Parks/Rec	Comments	
GTGOV1	Madera	Public Works Dept	Government	survey	waste/recycling	diverstion	generation	1,000.00	Merchant	Reused	
				street sweepings	1,300.0 tons	year	200.00 Actual	Merchant	Telus	Recycled	
				asphalt	2,084.00 tons	year	2,084.00 lbs/ton cu yd	Merchant	Recycled	PEUSE	
				tree trimmings	151 tons	year	151.00 lbs/cu yd	Telus	Composting		
				cable spools	11.7 tons	year	11.70 Actual	Merchant	Reused		
				scrap metal	16.0 tons	year	16.00 Actual	Merchant	Reused		
GTGOV2	Madera	Administration	Government	survey	paper	0.04 tons	year	0.045 lbs/ream	USEPA	Reused	
				toner cartridges	0.003 tons	year	0.003 lbs each	USEPA	Recycled		
GTGOV3	Madera	Fire Department	Government	survey	tabor	0.018 tons	year	0.085 lbs/ream	USEPA	Reused	
				toner cartridges	0.008 tons	year	0.0125 lbs each	USEPA	Recycled		
				box reuse	0.013 tons	year	0.011.1 lbs each box	USEPA	Reused		
GTGOV4	Madera	Parks and Comm S	Government	survey	waste/recycling	870 tons	year	500.00 8.7 tons/acre/yr	LA Parks/Rec	Comments	
				trimmings	14 tons	year	14,000.47 lbs/ton cu yd	Telus	Composting		
GTGOV5	Madera	Planning Departee	Government	survey	paper	0.24 tons	year	0.245 lbs/ream	USEPA	Reused	
GTGOV6	Madera	Police Department	Government	survey	paper	1.2 tons	year	1,205 lbs/ream	USEPA	Recycled	
				toner cartridges	0.03 tons	year	0.03 2.5 lbs each	USEPA	Recycled		
GTGOV7	Madera	City Attorney	Government	survey	toner cartridges	0.008 tons	year	0.012.5 lbs each	USEPA	Recycled	
GTGOV8	Madera	Fire Department	Government	survey	paper	0.008 tons	year	0.085 lbs/ream	USEPA	Recycled	
				toner cartridges	0.008 tons	year	0.012.5 lbs each	USEPA	Recycled		
GTGOV18	Madera	Finance Department	Government	survey	box reuse	0.013 tons	year	0.012.2 lbs each box	USEPA	Reused	
				paper	0.360 tons	year	0.565 lbs/ream	USEPA	Recycled		

3,049.78

County Government

GTGOV9	Madera	County Council	Government	survey	toner cartridges	0.008 tons	year	0.012.5 lbs each	USEPA	Recycled	
GTGOV10	Madera	Road Department	Government	survey	toner cartridges	0.021 tons	year	0.021.5 lbs each	USEPA	Recycled	
				box reuse	0.02 tons	year	0.0512.2 lbs each box	USEPA	Reused		
GTGOV11	Madera	Environmental Heal	Government	survey	box reuse	0.12 tons	year	0.121.2.7 lbs each box	USEPA	Reused	
GTGOV12	Madera	Revenue Services	Government	survey	white paper	0.008 tons	year	0.01 Actual	Merchant	Recycled	
				mixed paper	0.003 tons	year	0.01 Actual	Merchant	Recycled		
				phone books	0.0005 tons	year	0.00 Actual	Merchant	Recycled		
GTGOV13	Madera	Veterans Services	Government	survey	paper	0.013 tons	year	0.015 lbs/ream	USEPA	Reused	

0.22

Other Government

GTGOV14	Madera	CARTRAND	Government	Survey	paper	0.003 tons	year	0.00315 lbs/ream	USEPA	Reused	
GTGOV15	Madera	Parts	Government	Survey	toner cartridges	0.013 tons	year	0.021.5 lbs each	USEPA	Recycled	
				bqq reuse	0.02 tons	year	0.021.1 lbs each box	USEPA	Reused		
GTGOV16	Madera	Social Security	Government	Survey	paper	0.018 tons	year	0.023 lbs/ream	USEPA	Reused	
GTGOV17	Madera	USDA	Government	Survey	toner cartridges	0.003 tons	year	0.021.5 lbs each	USEPA	Recycled	
				box reuse	0.02 tons	year	0.032.3 lbs each	USEPA	Recycled		

0.10

Department of Conservation

GTDOC	Madera	Dept. of Conservat	DOC		Aluminum	675 tons	year	575.00 Actual	DOC	Recycled
					glass	780 tons	year	780.00 Actual	DOC	Recycled
					plastic	55 tons	year	55.00 Actual	DOC	Recycled

1,343.00

MRF Diversion

GT MRF	Madera	MRF Recovery	Operator		7,316 tons	year	7,316.00 Actual	MRP	Recycled
							7,316.00		

Landfill Diversion

GT ADC	Madera	Landfill Diversion	DRS/Operator		greenwaste/inerts	2,776 tons	year	2,776.00 Actual	Landfill	Recycled
								2,776.00		

Total Disposal 57,275

Total Disposal 34,542

Diversion Rate 62%

Total Generation 92,814

Population 36,050

Per Capita Generation 2,5324315